



EXPRESS5800/120Bb-6

STANDARD BLADE SERVER



Key Benefits

- » Highly modular Blade system
- » Industry leading design optimized for virtualization
- » Reduced power consumption

Key Features

- » Quad-Core Intel® Xeon® Processors
- » Up to 32GB of Memory
- » Two 1000Base-X Ports
- » Two Hot-Plug 2.5" SAS Hard Disk Bays
- » Supports RAID 0, RAID 1 & RAID 5

Servers for Data Center Consolidation and Virtualization

IT managers are facing infrastructure challenges that include costs, energy, change and productivity. NEC Express5800 Blade servers provide a versatile infrastructure to quickly deliver services to your business. NEC Express5800 Sigmablade Servers systems contain server, storage and network components in a cost-effective design. The management of blade servers is far easier than traditional rack-mount servers, the density is greater and the power consumption much lower.

HARDWARE SPECIFICATIONS

CPU

FSB	• 1,333 MHz
Processors	• E5405 (2.0GHz), E5420 (2.5GHz), X5460 (3.16GHz)
L2 Cache	• 2x6MB per CPU
Number of CPU	• 1 (standard) – 2 (maximum)

Memory

Memory Type	• DDR2-667 FB-DIMM with ECC
Maximum	• 16GB (4GB x4)

Storage

Standard	• Diskless Up to two disk drives, selected from 36.3GB, 73.2GB or 146.5GB
Maximum	• 293GB (146.5GB x2)
RAID	• RAID 0, RAID 1 & RAID *2
2.5" Disk Bays	• 2 [2]
Mezzanine Slot	• Type-1 slot x1[1] Type-2 slot x1[1] (Type-1 supported)

SigmaBladeSystem – Blade Enclosures



SIGMABLADE-M

- Compact 6U chassis optimized to manage mid-sized systems
- Easy monitoring of each blade server operating status
- Better and easier cabling by using KVM switches



SIGMABLADE-H

- High density 10U architecture ideal for the enterprise
- High speed backplane providing maximum system performance

Network & Video

Network	• 1000BASE-X (connected to midplane) x2 • SUV Connector (Serial x1, VGA x1, USB x2) x1 (when SUV cable is connected)
Video	• Integrated into the chipset (2MB)

Deployment

Processor	E5405 (2.0GHz)	E5420 (2.5GHz)	X5460 (3.16GHz)
Power Consumption (Maximum)			
per CPU Blade	256W(DC)	273W(DC)	380W(DC)
SIGMABLADE-M	3,143W(AC)	3,307W(AC)	4,388W(AC)
SIGMABLADE-H	6,629W(AC)	6,961W(AC)	9,049W(AC)

Weight

Supported OS

- Microsoft® Windows Server™ 2003 R2 Standard / Enterprise Edition
- Microsoft Windows Server 2003 R2 Standard / Enterprise x64 Edition R2¹
- Red Hat® Enterprise Linux® ES4 update3 (x86) / ES4.5 (EMT64T)²
- Red Hat Enterprise Linux AS4 Update3 (x86) / AS4.5 (EMT64T)²
- Red Hat Enterprise Linux 5²
- VMware® VI3 ESX v3.5 Foundation Edition
- VMware VI3 ESX v3.5 Standard Edition
- VMware VI3 ESX v3.5 Enterprise Edition

- Accessories**
- NEC EXPRESSBUILDER (NEC ESMPro/Manager, Agent), NEC DianaScope Bundled, Packing List, Startup Guide, MAC Address Seal x1

Operating Environment / Compliance

Environmental Specifications	• Operating Temperature: 10° to 35°C (50° to 95°F)
Compliance	FCC, C-Tick, BSMI (Taiwan), UL, CCC, EMI (Korea), China RoHS

¹ Not supported if clean-installed by DeploymentManager. (DeploymentManager is not bundled)
² On-board disk array is not supported by Linux.

Express5800

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